

Kyung-Tae Park

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76
papers

3,901
citations

34
h-index

62
g-index

77
ext. papers

4,282
ext. citations

4.2
avg, IF

5.41
L-index

#	Paper	IF	Citations
76	Microband-induced plasticity in a high MnAl light steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 417-424	5.3	281
75	Stacking fault energy and plastic deformation of fully austenitic high manganese steels: Effect of Al addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3651-3661	5.3	240
74	Creep behavior of discontinuous SiC/Al composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992 , 150, 21-35	5.3	222
73	High temperature creep of silicon carbide particulate reinforced aluminum. <i>Acta Metallurgica Et Materialia</i> , 1990 , 38, 2149-2159		178
72	Thermal stability and mechanical properties of ultrafine grained low carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 293, 165-172	5.3	175
71	Microstructural evolution in a commercial low carbon steel by equal channel angular pressing. <i>Acta Materialia</i> , 2000 , 48, 2247-2255	8.4	162
70	Hidden Second Oxidation Step of Hummers Method. <i>Chemistry of Materials</i> , 2016 , 28, 756-764	9.6	149
69	Grain refinement mechanism during equal-channel angular pressing of a low-carbon steel. <i>Acta Materialia</i> , 2001 , 49, 1285-1292	8.4	142
68	Hydrogen Delayed Fracture Properties and Internal Hydrogen Behavior of a Fe-8Mn-0.5Al-0.6C TWIP Steel. <i>ISIJ International</i> , 2009 , 49, 1952-1959	1.7	129
67	High-temperature deformation of 6061 Al. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 667-678		115
66	Tensile deformation of low-density Fe-Mn-Al austenitic steels at ambient temperature. <i>Scripta Materialia</i> , 2013 , 68, 375-379	5.6	109
65	Delayed static failure of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2012 , 66, 960-965	5.6	98
64	Tensile deformation of a duplex Fe-0Mn-0Al-0.6C steel having the reduced specific weight. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5196-5203	5.3	98
63	On the transitions of deformation modes of fully austenitic steels at room temperature. <i>Metals and Materials International</i> , 2010 , 16, 1-6	2.4	94
62	High strain rate superplasticity of submicrometer grained 5083 Al alloy containing scandium fabricated by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 341, 273-281	5.3	92
61	Ultrafine grained steels processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 299-302	5.3	82
60	Factors influencing the tensile behavior of a Fe-8Mn-0Al-0.8C steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 508, 234-240	5.3	80

59	Strain induced martensitic transformation of Fe ₂₀ Cr ₅ Mn _{0.2} Ni duplex stainless steel during cold rolling: Effects of nitrogen addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6012-6019	5.3	78
58	Role of ε martensite in tensile properties and hydrogen degradation of high-Mn steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 533, 87-95	5.3	74
57	TRIP aided deformation of a near-Ni-free, Mn bearing duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 535, 32-39	5.3	74
56	Tensile deformation of a low density Fe ₂₇ Mn ₁₂ Al _{0.8} C duplex steel in association with ordered phases at ambient temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 276-283	5.3	67
55	Annealing behavior of submicrometer grained ferrite in a low carbon steel fabricated by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 334, 79-86	5.3	64
54	Effects of nitrogen content on TRIP of Fe ₂₀ Cr ₅ Mn _{0.2} N duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 673-680	5.3	59
53	Microstructural interpretation of negligible strain-hardening behavior of submicrometer-grained low-carbon steel during tensile deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 705-707	2.3	58
52	Low-temperature superplastic behavior of a submicrometer-grained 5083 Al alloy fabricated by severe plastic deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 2859-2867	2.3	58
51	Microstructures and Mechanical Properties of Equal Channel Angular Pressed 5083 Al Alloy. <i>Materials Transactions</i> , 2001 , 42, 1074-1080	1.3	53
50	Effects of Al addition on high strain rate deformation of fully austenitic high Mn steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7267-7275	5.3	44
49	Stabilization of Insoluble Discharge Products by Facile Aniline Modification for High Performance Li-S Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500268	21.8	43
48	Caliber-rolled TWIP steel for high-strength wire rods with enhanced hydrogen-delayed fracture resistance. <i>Scripta Materialia</i> , 2012 , 67, 681-684	5.6	43
47	Enhancement of high strain rate superplastic elongation of a modified 5154 Al by subsequent rolling after equal channel angular pressing. <i>Scripta Materialia</i> , 2004 , 51, 479-483	5.6	42
46	Effect of Fe on the superplastic deformation of Zn-22 pct Al. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994 , 25, 2391-2401	2.3	42
45	Inclusions nucleating intragranular polygonal ferrite and acicular ferrite in low alloyed carbon manganese steel welds. <i>Metals and Materials International</i> , 2011 , 17, 349-356	2.4	41
44	Size and distribution of particles and voids pre-existing in equal channel angular pressed 5083 Al alloy: their effect on cavitation during low-temperature superplastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 371, 178-186	5.3	36
43	Effects of the strain rate on the tensile properties of a TRIP-aided duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 666, 280-287	5.3	35
42	High-strain-rate superplastic behavior of equal-channel angular-pressed 5083 Al-0.2 wt pct Sc. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 825-837	2.3	32

41	Strain-induced β martensite transformation during nanoindentation of high-nitrogen steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 598, 56-61	5.3	31
40	Microstructural Mechanisms during Dynamic Globularization of Ti-6Al-4V Alloy. <i>Materials Transactions</i> , 2008 , 49, 2196-2200	1.3	30
39	Formation of fine cementite precipitates in an ultra-fine grained low carbon steel. <i>Scripta Materialia</i> , 2003 , 48, 469-473	5.6	30
38	Microstructural stability of ultrafine grained low-carbon steel containing vanadium fabricated by intense plastic straining. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2373-2381	2.3	29
37	Effects of post-deformation annealing conditions on the behavior of lamellar cementite and the occurrence of delamination in cold drawn steel wires. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 5300-5304	5.3	26
36	Effects of grain size and pressing speed on the deformation mode of commercially pure Ti during equal channel angular pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 1555-1558	2.3	24
35	Microstructures and Mechanical Properties of Ultra Low Carbon IF Steel Processed by Accumulative Roll Bonding Process. <i>Materials Transactions</i> , 2002 , 43, 2320-2325	1.3	24
34	Recrystallization Behavior of 7175 Al Alloy during Modified Strain-Induced Melt-Activated (SIMA) Process. <i>Materials Transactions</i> , 2006 , 47, 1250-1256	1.3	23
33	Effect of Heat Treatment on Microstructures and Tensile Properties of Ultrafine Grained C-Mn Steel Containing 0.34 mass% V. <i>ISIJ International</i> , 2004 , 44, 1057-1062	1.7	22
32	High-Performance, Wearable Thermoelectric Generator Based on a Highly Aligned Carbon Nanotube Sheet. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1199-1206	6.1	20
31	Microstructures developed by compressive deformation of coarse grained and ultrafine grained 5083 Al alloys at 77 K and 298 K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 408, 102-109	5.3	19
30	Directional cavity stringer formation in a superplastic 7075 Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 268, 55-62	5.3	19
29	Effects of Heat Treatment on Microstructure and Tensile Properties of a Fe-27Mn-12Al-0.8C Low-Density Steel. <i>Jom</i> , 2014 , 66, 1828-1836	2.1	18
28	Twinning-Induced Plasticity Aided High Ductile Duplex Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 597-601	2.3	17
27	Static and Dynamic Deformation of Fully Austenitic High Mn Steels. <i>Procedia Engineering</i> , 2011 , 10, 1002-1006	16	
26	Effect of Ce addition on secondary phase transformation and mechanical properties of 27CrNi hyper duplex stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 573, 27-36	5.3	15
25	Extended strain hardening by a sequential operation of twinning induced plasticity and transformation induced plasticity in a low Ni duplex stainless steel. <i>Metals and Materials International</i> , 2014 , 20, 893-898	2.4	14
24	Effect of ECAP Strain on Deformation Behavior at Low Temperature Superplastic Regime of Ultrafine Grained 5083 Al Alloy Fabricated by ECAP. <i>Materials Transactions</i> , 2004 , 45, 958-963	1.3	13

23	A new low carbon steel microstructure: Ultrafine ferrite grains with homogeneously distributed fine cementite particles. <i>Metals and Materials International</i> , 2001 , 7, 431-435	2.4	12
22	Dynamic tensile extrusion behavior of coarse grained and ultrafine grained OFHC Cu. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 569, 61-70	5.3	11
21	Effect of Equal Channel Angular Pressing on the Distribution of Reinforcements in the Discontinuous Metal Matrix Composites. <i>Materials Transactions</i> , 2002 , 43, 757-761	1.3	11
20	Microstructure and cavitation in the superplastic Zn-22 wt% Al alloy: Effect of solution heat treatment. <i>Philosophical Magazine Letters</i> , 1994 , 70, 7-13	1	10
19	Globularization Behavior of ELI Grade Ti-6Al-4V Alloy during Non-Isothermal Multi-Step Forging. <i>Materials Transactions</i> , 2008 , 49, 215-223	1.3	9
18	Reverse transformation of ferrite and pearlite to austenite in an ultrafine-grained low-carbon steel fabricated by severe plastic deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 3161-3164	2.3	9
17	Factors Influencing Tensile Ductility of OFHC Cu Having Different Ultrafine Grained Structures. <i>Materials Transactions</i> , 2010 , 51, 2049-2055	1.3	8
16	Superplastic deformation behavior of ultra-fine-grained 5083 Al alloy using load-relaxation tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 756-760	5.3	8
15	Comparison of compressive deformation of ultrafine-grained 5083 Al alloy at 77 and 298 K. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 1365-1368	2.3	8
14	Easy preparation of partially-opened carbon nanotubes by simple air oxidation for high performance LiB batteries. <i>RSC Advances</i> , 2016 , 6, 113522-113526	3.7	7
13	Effect of Si and Ce Addition on the Microstructure and Pitting Corrosion Resistance of Hyper-Duplex Stainless Steels. <i>Corrosion</i> , 2015 , 71, 470-482	1.8	5
12	Tensile failure of 4130 steel having different ultrafine grained structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 645-651	5.3	5
11	Analysis on dynamic tensile extrusion behavior of UFG OFHC Cu. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012144	0.4	3
10	Coarse Second Phase Particle Size Distribution of UFG Al Alloys Processed by Severe Plastic Deformation: Effect on Cavitation during Superplastic Deformation. <i>Materials Science Forum</i> , 2007 , 539-543, 2859-2864	0.4	3
9	Highly Integrated, Wearable Carbon-Nanotube-Yarn-Based Thermoelectric Generators Achieved by Selective Inkjet-Printed Chemical Doping. <i>Advanced Energy Materials</i> , 2002 , 256	21.8	3
8	Reappraisal of grain boundary diffusion creep equations for nanocrystalline materials. <i>Metals and Materials International</i> , 2006 , 12, 107-113	2.4	2
7	Superplastic Deformation of Ultrafine Grained Al Alloy Processed by ECAP and Post-Rolling. <i>Materials Science Forum</i> , 2006 , 503-504, 119-124	0.4	2
6	Examination of rate-controlling mechanisms for plastic deformation of pearlitic steel at low homologous temperatures. <i>Materials Characterization</i> , 2016 , 119, 166-174	3.9	2

5	Secondary Austenite Formation During Aging of Hot-Rolled Plate of a TRIP-Aided Mo-Free Lean Duplex Stainless Steel. <i>Metals and Materials International</i> , 2020 , 27, 3105	2.4	1
4	Deformation and microstructural evolution of ultrafine- and fine-grained OFHC Cu during dynamic tensile extrusion. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 10746-10757	5.5	1
3	Mechanical Behaviors of Ultrafine Grained Metallic Materials. <i>Solid State Phenomena</i> , 2007 , 124-126, 1325-1328	0.4	
2	Superplastic Behavior of Ultrafine Grained Al Alloys Fabricated by Severe Plastic Deformation. <i>Key Engineering Materials</i> , 2007 , 345-346, 597-600	0.4	
1	Microstructural Stability and Tensile Properties of Nanostructured Low Carbon Steels Processed by ECAP 2005 , 616-622		